Contents

Volume 78, Issue 1, January 2009

In Focus

1 Global warming tugs at trophic interactions
B. W. BROOK

Behavioural ecology

4 Temperature and life history: experimental heating leads female tree swallows to modulate egg temperature and incubation behaviour
D. R. ARDIA, J. H. PÉREZ, E. K. CHAD, M. A. VOSS, E. D. CLOTFELTER

14 Microhabitat selection by sea turtles in a dynamic thermal marine environment
G. SCHOFIELD, C. M. BISHOP, K. A. KATSELIDIS, P. DIMOPOULOS, J. D. PANTIS, G. C. HAYS

22 Flower power: tree flowering phenology as a settlement cue for migrating birds
L. J. MCGRATH, C. VAN RIPER III, J. J. FONTAINE

31 Eggshell pigmentation pattern in relation to breeding performance of blue tits *Cyanistes caeruleus*
J. J. SANZ, V. GARCÍA-NAVAS

42 Access to mates in a territorial ungulate is determined by the size of a male's territory, but not by its habitat quality
C. VANPÉ, N. MORELLET, P. KJELLANDER, M. GOULARD, O. LIBERG, A. J. M. HEWISON

52 Competition at the range boundary in the slimy salamander: using reciprocal transplants for studies on the role of biotic interactions in spatial distributions
H. R. CUNNINGHAM, L. J. RISSLER, J. J. APODACA

63 Skipping the Baltic: the emergence of a dichotomy of alternative spring migration strategies in Russian barnacle geese
G. EICHHORN, R. H. DRENT, J. STAHL, A. LEITO, T. ALERSTAM

73 Climate change and unequal phenological changes across four trophic levels:constraints or adaptations?
C. BOTH, M. VAN ASCH, R. G. BIJLSMA, A. B. VAN DEN BURG, M. E. VISSER

84 Climate effects on offspring sex ratio in a viviparous lizard
E. WAPSTRA, T. ULLER, D. L. SINN, M. OLSSON, K. MAZUREK, J. JOSS, R. SHINE

91 Elevation and forest clearing effects on foraging differ between surface – and subterranean – foraging army ants (Formicidae: Ecitoninae)
A. KUMAR, S. O'DONNELL

Climate ecology

98 Taxonomical vs. functional responses of bee communities to fire in two contrasting climatic regions
M. MORETTI, F. DE BELLO, S. P. M. ROBERTS, S. G. POTTS

Demography

109 Predictors of floater status in a long-lived bird: a cross-sectional and longitudinal test of hypotheses
F. SERGIO, J. BLAS, F. HIRALDO

Dispersal ecology

119 Topography-specific seed dispersal by Japanese macaques in a lowland forest on Yakushima Island, Japan
R. TSUJINO, T. YUMOTO

Foraging ecology

126 Landscape heterogeneity and marine subsidy generate extensive intrapopulation niche diversity in a large terrestrial vertebrate
C. T. DARIMONT, P. C. PAQUET, T. E. REIMCHEN

134 A stochastic version of the Beddington-DeAngelis functional response: modelling interference for a finite number of predators
J. VAN DER MEER, I. M. SMALLEGANGE

Life histories

143 Individual variation in reproductive costs of reproduction: high-quality females always do better
S. HAMEL, S. D. CÔTÉ, J.-M. GAILLARD, M. FESTA-BIANCHET

152 The effects of group size, leaf size, and density on the performance of a leaf-mining moth
C. LOW, S. N. WOOD, R. M. NISBET

161 Age-dependent relationship between horn growth and survival in wild sheep
C. BONENFANT, F. PELLETIER, M. GAREL, P. BERGERON

Macroecology

172 The consistency and stability of abundance–occupancy relationships in large-scale population dynamics
B. ZUCKERBERG, W. F. PORTER, K. CORWIN

182 Assessing the accuracy of species distribution models to predict amphibian species richness patterns
E. PINEDA, J. M. LOBO

Parasite and disease ecology

191 All hosts are not equal: explaining differential patterns of malformations in an amphibian community
P. T. J. JOHNSON, R. B. HARTSON

202 Response to enrichment, type and timing: small mammals vary in their response to a springtime cicada but not a carbohydrate pulse
K. J. VANDEGRIFT, P. J. HUDSON

210 Host density and human activities mediate increased parasite prevalence and richness in primates threatened by habitat loss and fragmentation
D. N. M. MBORA, M. A. MCPEEK

Population ecology

219 Reproductive conflict delays the recovery of an endangered social species
A. LÓPEZ-SEPULCRE, K. NORRIS, H. KOKKO

226 Spatial distribution of limited resources and local density regulation in juvenile Atlantic salmon
A. G. FINSTAD, S. EINUM, O. UGEDAL, T. FORSETH

236 Population dynamics of six land snail species in experimentally fragmented grassland
P. STOLL, P. OGGIER, B. BAUR

247 Male flight distance and population substructure in the bumblebee *Bombus terrestris*
F. B. KRAUS, S. WOLF, R. F. A. MORITZ

Trophic interactions

253 Review: Ecological networks – beyond food webs
T. C. INGS, J. M. MONTOYA, J. BASCOMPTE, N. BLÜTHGEN, L. BROWN, C. F. DORMANN, F. EDWARDS, D. FIGUEROA, U. JACOB, J. I. JONES, R. B. LAURIDSEN, M. E. LEDGER, H. M. LEWIS, J. M. OLESEN, F. J. FRANK VAN VEEN, P. H. WARREN, G. WOODWARD

270 How does abundance scale with body size in coupled size-structured food webs?
J. L. BLANCHARD, S. JENNINGS, R. LAW, M. D. CASTLE, P. MCCLOGHRIE, M.-J. ROCHET, E. BENOÎT

281 Physical defences wear you down: progressive and irreversible impacts of silica on insect herbivores
F. P. MASSEY, S. E. HARTLEY

Volume 78, Issue 2, March 2009

In Focus

293 High and low, fast or slow: the complementary contributions of altitude and latitude to understand life-history variation
B. I. TIELEMAN

Behavioural ecology

296 Sexually selected behaviour: red squirrel males search for reproductive success
J. E. LANE, S. BOUTIN, M. R. GUNN, D. W. COLTMAN

Community ecology

305 The importance of environmental heterogeneity for species diversity and assemblage structure in Bornean stream frogs
A. KELLER, M.-O. RÖDEL, K. E. LINSENMAIR, T. U. GRAFE

315 Beta diversity along environmental gradients: implications of habitat specialization in tropical montane landscapes
J. E. JANKOWSKI, A. L. CIECKA, N. Y. MEYER, K. N. RABENOLD

328 Latitudinal gradients in species richness in assemblages of sessile animals in rocky intertidal zone: mechanisms determining scale-dependent variability
T. OKUDA, T. NODA, T. YAMAMOTO, M. HORI, M. NAKAOKA

338 Large herbivores and aquatic–terrestrial links in southern boreal forests
J. K. BUMP, K. B. TISCHLER, A. J. SCHRANK, R. O. PETERSON, J. A. VUCETICH

346 Ecological modules and roles of species in heathland plant–insect flower visitor networks
Y. L. DUPONT, J. M. OLESEN

Evolutionary ecology

354 Trading offspring size for number in a variable environment: selection on reproductive investment in female Soay sheep
A. J. WILSON, J. M. PEMBERTON, J. G. PILKINGTON, T. H. CLUTTON-BROCK, L. E. B. KRUUK

365 Breeding in high-elevation habitat results in shift to slower life-history strategy within a single species
H. BEARS, K. MARTIN, G. C. WHITE

376 Timing is everything: flexible phenology and shifting selection in a colonial seabird
T. E. REED, P. WARZYBOK, A. J. WILSON, R. W. BRADLEY, S. WANLESS, W. J. SYDEMAN

388 Ecomorphological predictors of natal dispersal distances in birds
B. A. DAWIDEIT, A. B. PHILLIMORE, I. LAUBE, B. LEISLER, K. BÖHNING-GAESE

Life histories

396 Clutch size determination in shorebirds: revisiting incubation limitation in the pied avocet (*Recurvirostra avosetta*)
S. LENGYEL, B. KISS, C. R. TRACY

406 Exploring individual quality in a wild population of red deer
K. MOYES, B. J. T. MORGAN, A. MORRIS, S. J. MORRIS, T. H. CLUTTON-BROCK, T. COULSON

414 Sex-specific effects of altered competition on nestling growth and survival: an experimental manipulation of brood size and sex ratio
M. NICOLAUS, S. P. M. MICHLER, R. UBELS, M. VAN DER VELDE, J. KOMDEUR, C. BOTH, J. M. TINBERGEN

Parasite and disease ecology

427 Demography, disease and the devil: life-history changes in a disease-affected population of Tasmanian devils (*Sarcophilus harrisii*)
S. LACHISH, H. MCCALLUM, M. JONES

437 Can the protein costs of bacterial resistance be offset by altered feeding behaviour?
S. POVEY, S. C. COTTER, S. J. SIMPSON, K. P. LEE, K. WILSON

Population ecology

447 Spatial and temporal variation in the relative contribution of density dependence, climate variation and migration to fluctuations in the size of great tit populations
V. GRØTAN, B.-E. SÆTHER, S. ENGEN, J. H. VAN BALEN, A. C. PERDECK, M. E. VISSER

460 Carry-over effects in a Pacific seabird: stable isotope evidence that pre-breeding diet quality influences reproductive success
M. C. SORENSEN, J. M. HIPFNER, T. K. KYSER, D. R. NORRIS

468 Strong philopatry derived from capture–recapture records does not lead to fine-scale genetic differentiation in lesser kestrels
M. ALCAIDE, D. SERRANO, J. L. TELLA, J. J. NEGRO

476 Interactions between harvesting, noise and territoriality in a model of red grouse population cycles
D. S. CHAPMAN, S. J. CORNELL, W. E. KUNIN
485 Factors affecting unintentional harvesting selectivity in a monomorphic species
N. BUNNEFELD, D. BAINES, D. NEWBORN, E. J. MILNER-GULLAND

Volume 78, Issue 3, May 2009

In Focus
493 Infectious food webs
A. P. BECKERMAN, O. L. PETCHEY

Behavioural ecology
497 Habitat structure mediates predation risk for sedentary prey: experimental tests of alternative hypotheses
A. D. CHALFOUN, T. E. MARTIN
504 Fine-scale life-history variation in sociable weavers in relation to colony size
C. N. SPOTTISWOODE
513 Time to eat: measurements of feeding behaviour in a large marine predator, the northern elephant seal *Mirounga angustirostris*
C. E. KUHN, D. E. CROCKER, Y. TREMBLAY, D. P. COSTA
524 Using an algorithmic model to reveal individually variable movement decisions in a wintering sea duck
S. OPPEL, A. N. POWELL, D. L. DICKSON
532 Body size and predatory performance in wolves: is bigger better?
D. R. MACNULTY, D. W. SMITH, L. D. MECH, L. E. EBERLY
540 Context-dependent flight speed: evidence for energetically optimal flight speed in the bat *Pipistrellus kuhlii*?
U. GRODZINSKI, O. SPIEGEL, C. KORINE, M. W. HOLDERIED
549 First in line or first in time? Effects of settlement order and arrival date on reproduction in a group-living beetle *Dendroctonus ponderosae*
T. M. LATTY, M. L. REID

Community ecology
556 Towards a predictive framework for predator risk effects: the interaction of landscape features and prey escape tactics
M. R. HEITHAUS, A. J. WIRSING, D. BURKHOLDER, J. THOMSON, L. M. DILL
563 Food web topology and parasites in the pelagic zone of a subarctic lake
P.-A. AMUNDSEN, K. D. LAFFERTY, R. KNUDSEN, R. PRIMICERIO, A. KLEMETSEN, A. M. KURIS
573 Undersampling bias: the null hypothesis for singleton species in tropical arthropod surveys
J. A. CODDINGTON, I. AGNARSSON, J. A. MILLER, M. KUNTNER, G. HORMIGA

Demography
585 A slow life in hell or a fast life in heaven: demographic analyses of contrasting roe deer populations
E. B. NILSEN, J.-M. GAILLARD, R. ANDERSEN, J. ODDEN, D. DELORME, G. VAN LAERE, J. D. C. LINNELL

Evolutionary ecology
595 Maturation trends in red deer females over 39 years in harvested populations
A. MYSTERUD, N. G. YOCCOZ, R. LANGVATN
600 Parasite intensity and fur coloration in reindeer calves – contrasting artificial and natural selection
R. RØDVEN, I. MÄNNIKKÖ, R. A. IMS, N. G. YOCCOZ, I. FOLSTAD
608 Strength and cost of an induced immune response are associated with a heritable melanin-based colour trait in female tawny owls
J. GASPARINI, P. BIZE, R. PIAULT, K. WAKAMATSU, J. D. BLOUNT, A.-L. DUCREST, A. ROULIN

Life histories
617 Sex-specific adult dispersal and its selective consequences in the brown anole, *Anolis sagrei*
R. CALSBEEK

Population ecology
625 Effect of current reproduction on apparent survival, breeding dispersal, and future reproduction in barn swallows assessed by multistate capture–recapture models
M. SCHAUB, J. VON HIRSCHHEYDT
636 Nonstationary spatio-temporal small rodent dynamics: evidence from long-term Norwegian fox bounty data
J.-A. HENDEN, R. A. IMS, N. G. YOCCOZ
646 Within and between population variation in disease resistance in cyclic populations of western tent caterpillars: a test of the disease defence hypothesis
J. S. CORY, J. H. MYERS
656 The magnitude and selectivity of natural and multiple anthropogenic mortality causes in hunted brown bears
R. BISCHOF, J. E. SWENSON, N. G. YOCCOZ, A. MYSTERUD, O. GIMENEZ
666 Predicting population survival under future climate change: density dependence, drought and extraction in an insular bighorn sheep
F. COLCHERO, R. A. MEDELLIN, J. S. CLARK, R. LEE, G. G. KATUL

Spatial ecology
674 Estimating the scale of fish feeding movements in rivers using $\delta^{13}C$ signature gradients
J. B. RASMUSSEN, V. TRUDEAU, G. MORINVILLE

Trophic interactions
686 Interactions to the fifth trophic level: secondary and tertiary parasitoid wasps show extraordinary efficiency in utilizing host resources
J. A. HARVEY, R. WAGENAAR, T. M. BEZEMER

693 **Editors' Note**

Volume 78, Issue 4, July 2009

In Focus

695 Disentangling multiple predator effects in biodiversity and ecosystem functioning research
S. J. LEROUX, M. LOREAU

Review

699 Cascading top-down effects of changing oceanic predator abundances
J. K. BAUM, B. WORM

Behavioural ecology

715 Negative synergism of rainfall patterns and predators affects frog egg survival
J. C. TOUCHON, K. M. WARKENTIN

Community ecology

724 Separating the influences of environment and species interactions on patterns of distribution and abundance: competition between large herbivores
E. G. RITCHIE, J. K. MARTIN, C. N. JOHNSON, B. J. FOX

732 Predator richness has no effect in a diverse marine food web
M. I. O'CONNOR, J. F. BRUNO

741 Climate, season, and social status modulate the functional response of an efficient stalking predator: the Eurasian lynx
E. B. NILSEN, J. D. C. LINNELL, J. ODDEN, R. ANDERSEN

752 A seasonal shift in habitat suitability enhances an annual predator subsidy
D. LEWIS, R. F. DENNO

Demography

761 Patterns of mortality for each life-history stage in a population of the endangered New Zealand stitchbird
M. LOW, T. PÄRT

Evolutionary ecology

772 Scared fish get lazy, and lazy fish get fat
F. JOHANSSON, J. ANDERSSON

778 Inbreeding avoidance under different null models of random mating in the great tit
M. SZULKIN, P. ZELAZOWSKI, G. NICHOLSON, B. C. SHELDON

Life histories

789 Family legacies: short- and long-term fitness consequences of early-life conditions in female European rabbits
H. G. RÖDEL, D. VON HOLST, C. KRAUS

798 Effects of individual quality, reproductive success and environmental variability on survival of a long-lived seabird
A. LESCROËL, K. M. DUGGER, G. BALLARD, D. G. AINLEY

Parasite and disease ecology

807 Evidence for the involvement of an alternate rodent host in the dynamics of introduced plague in prairie dogs
P. STAPP, D. J. SALKELD, H. A. FRANKLIN, J. P. KRAFT, D. W. TRIPP, M. F. ANTOLIN, K. L. GAGE

818 Social group size affects *Mycobacterium bovis* infection in European badgers (*Meles meles*)
R. WOODROFFE, C. A. DONNELLY, G. WEI, D. R. COX, F. J. BOURNE, T. BURKE, R. K. BUTLIN, C. L. CHEESEMAN, G. GETTINBY, P. GILKS, S. HEDGES, H. E. JENKINS, W. T. JOHNSTON, J. P. MCINERNEY, W. I. MORRISON, L. C. POPE

Population ecology

828 No experimental evidence for local competition in the nestling phase as a driving force for density-dependent avian clutch size
M. NICOLAUS, C. BOTH, R. UBELS, P. EDELAAR, J. M. TINBERGEN

839 Effect of genetic variance in plant quality on the population dynamics of a herbivorous insect
N. UNDERWOOD

848 Individual-level diet variation in four species of Brazilian frogs
M. S. ARAÚJO, D. I. BOLNICK, L. A. MARTINELLI, A. A. GIARETTA, S. F. DOS REIS

857 Living on the edge: roads and edge effects on small mammal populations
E. FUENTES-MONTEMAYOR, A. D. CUARÓN, E. VÁZQUEZ-DOMÍNGUEZ, J. BENÍTEZ-MALVIDO, D. VALENZUELA-GALVÁN, E. ANDRESEN

Spatial ecology

866 The effects of colonization, extinction and competition on co-existence in metacommunities
J. J. F. G. HUNT, M. B. BONSALL

880 Fine-scale foraging behaviour of a medium-ranging marine predator
K. C. HAMER, E. M. HUMPHREYS, M. C. MAGALHÃES, S. GARTHE, J. HENNICKE, G. PETERS, D. GRÉMILLET, H. SKOV, S. WANLESS

Volume 78, Issue 5, September 2009

In Focus

891 Six degrees of *Apodemus* separation
H. MCCALLUM

Review

894 Linking movement behaviour, dispersal and population processes: is individual variation a key?
C. HAWKES

Behavioural ecology

907 Short- and long-term effects of egg size and feeding frequency on offspring quality in the collared flycatcher (*Ficedula albicollis*)
M. KRIST

919 Consumers that are not 'ideal' or 'free' can still approach the ideal free distribution using simple patch-leaving rules
B. D. GRIFFEN

Community ecology

928 Stage-dependent predation on competitors: consequences for the outcome of a mosquito invasion
B. W. ALTO, B. KESAVARAJU, S. A. JULIANO, L. PHILIP LOUNIBOS

937 Factors controlling community structure in heterogeneous metacommunities
K. F. DAVIES, M. HOLYOAK, K. A. PRESTON, V. A. OFFEMAN, Q. LUM

945 Host immunization shapes interspecific associations in trematode parasites
A. KARVONEN, O. SEPPÄLÄ, E. TELLERVO VALTONEN

953 Community consequences of herbivore-induced bottom–up trophic cascades: the importance of resource heterogeneity
S. UTSUMI, M. NAKAMURA, T. OHGUSHI

Evolutionary ecology

964 Evolution of cannibalism and female's response to oviposition-deterring pheromone in aphidophagous predators
X. MARTINI, P. HACCOU, I. OLIVIERI, J.-L. HEMPTINNE

973 Size-dependent predation risk in tree-feeding insects with different colouration strategies: a field experiment
T. REMMEL, T. TAMMARU

981 Individual responses in spring arrival date to ecological conditions during winter and migration in a migratory bird
J. BALBONTÍN, A. P. MØLLER, I. G. HERMOSELL, A. MARZAL, M. REVIRIEGO, F. DE LOPE

990 Bet-hedging and the orientation of juvenile passerines in fall migration
J. R. REILLY, R. J. REILLY

Life histories

1002 Age-related gestation length adjustment in a large iteroparous mammal at northern latitude
A. MYSTERUD, K. H. RØED, Ø. HOLAND, N. G. YOCCOZ, M. NIEMINEN

1007 Maternal investment in relation to sex ratio and offspring number in a small mammal – a case for Trivers and Willard theory?
E. KOSKELA, T. MAPPES, T. NISKANEN, J. RUTKOWSKA

1015 Comparison of social networks derived from ecological data: implications for inferring infectious disease dynamics
S. E. PERKINS, F. CAGNACCI, A. STRADIOTTO, D. ARNOLDI, P. J. HUDSON

Physiological ecology

1023 Thermoregulation and habitat selection in wood turtles *Glyptemys insculpta*: chasing the sun slowly
Y. DUBOIS, G. BLOUIN-DEMERS, B. SHIPLEY, D. THOMAS

1033 Predator size, prey size and threshold food densities of diving ducks: does a common prey base support fewer large animals?
S. E. RICHMAN, J. R. LOVVORN

Population ecology

1043 Reproductive interference determines persistence and exclusion in species interactions
S. KISHI, T. NISHIDA, Y. TSUBAKI

1050 Population dynamics in a cyclic environment: consequences of cyclic food abundance on tawny owl reproduction and survival
P. KARELL, K. AHOLA, T. KARSTINEN, A. ZOLEI, J. E. BROMMER

1063 Critical parameters for predicting population fluctuations of some British passerines
B.-E. SÆTHER, V. GRØTAN, S. ENGEN, D. G. NOBLE, R. P. FRECKLETON

1076 Predicting the impact of stage-specific harvesting on population dynamics
D. CARSLAKE, S. TOWNLEY, D. J. HODGSON

1086 Predator–prey relationships in a changing environment: the case of the sparrowhawk and its avian prey community in a rural area
A. MILLON, J. T. NIELSEN, V. BRETAGNOLLE, A. P. MØLLER

Trophic ecology

1096 Pollination networks of oil-flowers: a tiny world within the smallest of all worlds
E. L. S. BEZERRA, I. C. MACHADO, M. A. R. MELLO

Volume 78, Issue 6, November 2009

In Focus

1103 The physiology of predator stress in free-ranging prey
E. L. PREISSER

Review

1106 Ecological feedbacks and the evolution of resistance
M. A. DUFFY, S. E. FORDE

Behavioural ecology

1113 Classifying movement behaviour in relation to environmental conditions using hidden Markov models
T. A. PATTERSON, M. BASSON, M. V. BRAVINGTON, J. S. GUNN

1124 Habitat and roe deer fawn vulnerability to red fox predation
M. PANZACCHI, J. D. C. LINNELL, M. ODDEN, J. ODDEN, R. ANDERSEN

1134 Spatial scale and opportunities for choice influence browsing and associational refuges of focal plants
A. M. MILLER, C. MCARTHUR, P. J. SMETHURST

Community ecology

1143 Testing a biological mechanism of the insurance hypothesis in experimental aquatic communities
D. J. LEARY, O. L. PETCHEY

1152 Invasion success depends on invader body size in a size-structured mixed predation–competition community
A. SCHRÖDER, K. A. NILSSON, L. PERSSON, T. VAN KOOTEN, B. REICHSTEIN

1163 Structuring of Amazonian bat assemblages: the roles of flooding patterns and floodwater nutrient load
M. J. R. PEREIRA, J. T. MARQUES, J. SANTANA, C. D. SANTOS, J. VALSECCHI, H. L. DE QUEIROZ, P. BEJA, J. M. PALMEIRIM

1172 Reciprocal phenotypic plasticity can lead to stable predator–prey interaction
A. MOUGI, O. KISHIDA

Demography

1182 Variation of adult survival drives population dynamics in a migrating forest bat
W. SCHORCHT, F. BONTADINA, M. SCHAUB

1191 Importance of climatic and environmental change in the demography of a multi-brooded passerine, the woodlark *Lullula arborea*
L. J. WRIGHT, R. A. HOBLYN, R. E. GREEN, C. G. R. BOWDEN, J. W. MALLORD, W. J. SUTHERLAND, P. M. DOLMAN

Evolutionary ecology

1203 Heterogeneous selection on a heritable temperament trait in a variable environment
J. L. QUINN, S. C. PATRICK, S. BOUWHUIS, T. A. WILKIN, B. C. SHELDON

1216 Sex-specific fitness correlates of dispersal in a house sparrow metapopulation
H. PÄRN, H. JENSEN, T. H. RINGSBY, B.-E. SÆTHER

1226 Evolutionary ecology of human birth sex ratio under the compound influence of climate change, famine, economic crises and wars
S. HELLE, S. HELAMA, K. LERTOLA

Life histories

1234 Variation in dispersal mortality and dispersal propensity among individuals: the effects of age, sex and resource availability
D. E. BOWLER, T. G. BENTON

1242 A test of life-history theories of immune defence in two ecotypes of the garter snake, *Thamnophis elegans*
A. M. SPARKMAN, M. G. PALACIOS

Physiological ecology

1249 The sensitive hare: sublethal effects of predator stress on reproduction in snowshoe hares
M. J. SHERIFF, C. J. KREBS, R. BOONSTRA

Population ecology

1259 Landscape-scale experiment demonstrates that Wadden Sea intertidal flats are used to capacity by molluscivore migrant shorebirds
C. KRAAN, J. A. VAN GILS, B. SPAANS, A. DEKINGA, A. I. BIJLEVELD, M. VAN ROOMEN, R. KLEEFSTRA, T. PIERSMA

1269 Floristic heterogeneity between forested sites in Kibale National Park, Uganda: insights into the fine-scale determinants of density in a large-bodied frugivorous primate
K. B. POTTS, C. A. CHAPMAN, J. S. LWANGA

1278 Pulsed resources and climate-induced variation in the reproductive traits of wild boar under high hunting pressure
S. SABRINA, G. JEAN-MICHEL, T. CAROLE, B. SERGE, B. ERIC

1291 Density dependence and climate effects in Rocky Mountain elk: an application of regression with instrumental variables for population time series with sampling error
S. CREEL, M. CREEL

1298 Great tits lay increasingly smaller clutches than selected for: a study of climate- and density-related changes in reproductive traits
M. P. AHOLA, T. LAAKSONEN, T. EEVA, E. LEHIKOINEN

Trophic interactions

1307 Predator foraging behaviour drives food-web topological structure
X. LAZZARO, G. LACROIX, B. GAUZENS, J. GIGNOUX, S. LEGENDRE